Docket No. FAZIX/1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

Examiner

Cheyne D. Ly

NOV 2 1 2003

Group Art Unit :

1631

TECH CENTER 1600/2900

Applicant

Jonathan M. Friedman

Application No.:

09/910,592

Confirmation No.: 1403

Filed

July 20, 2001

For

METHOD FOR AB INITIO DETERMINATION OF MACROMOLECULAR CRYSTALLOGRAPHIC PHASES AT MODERATE RESOLUTION BY A SYMMETRY-

ENFORCED ORTHOGONAL MULTICENTER
SPHERICAL HARMONIC-SPHERICAL BESSEL

EXPANSION

New York, New York November 12, 2003

Hon. Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicant makes of record the following documents, which are listed on Form PTO-1449, enclosed herewith in duplicate.

U.S. PATENT

6,020,121 issued February 1, 2000 Bao et al.

OTHER DOCUMENTS

Adams, P.D., et al., "Extending the limits of molecular replacement through combined simulated annealing and maximum-likelihood refinement," Acta Crystallogr. D: Biol. Crystallogr. 55(1): 181-190 (1999).

Andrews, K.W. "A table of maxima and minima of the Bessel functions Jn(Z) for n=0 to n=30," Acta Crystallographica 37: 765-766 (1981).

Blake, J.F., "Chemoinformatics - predicting the physicochemical properties of 'drug like' molecules," Curr. Opin. Biotechnol. 11(1): 104-107 (2000).

Chen, J., et al., "Increasing the Thermostability of Staphylococcal Nuclease: Implications for the Origin of Protein Thermostability," J. Mol. Biol. 303: 125-130 (2000).

Clark, D.E., et al., "Pharmacophoric pattern matching in files of three-dimensional chemical structures: implementation of flexible searching," J. Mol. Graphics 8(5): 146-156 (1993).

Fitzgerald, P.M.D., "MERLOT, an integrated package of computer programs for the determination of crystal structures by molecular replacement," J. Appl. Crystallography 21: 273-278 (1988).

Ho, C.M.W., et al., "FOUNDATION: a program to retrieve all possible structures containing a user-defined minimum number of matching query elements from three-dimensional databases," J. Comput. Aided Mol. Des. 7(1): 3-22 (1993).

Norinder, U., et al., "Theoretical calculation and prediction of intestinal absorption of drugs in humans using MolSurf parametrization and PLS statistics," Eur. J. Pharm. Sci.~8(1):~49-56~(1999).

Paciorek, W.A., et al., "Generalized Bessel functions in incommensurate structure analysis," Acta Crystallographica 50: 194-203 (1994).

Su, Z., et al., "Closed-form expressions for Fourier-Bessel transform of Slater-type functions," J. Appl. Cryst. 23: 71-73 (1990).

Van Drie, J.H., "An inequality for 3D database searching and its use in evaluating the treatment of conformational flexibility," J. Comput. Aided Mol. Des. 10(6): 623-630 (1996).

Willet, P., "Searching for pharmacophoric patterns in databases of three-dimensional chemical structures," J. Mol. Recognit. 8(5): 290-303 (1995).

REMARKS

Applicant requests that the cited documents be (1) fully considered by the Examiner during the course of examination of this application and (2) printed on any patent issuing from this application. Applicant also requests that a copy of Form PTO-1449, as considered and initialed by the Examiner, be returned with the next communication.

Respectfully submitted,

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FORM .PTOP1	449 U. DEPARTMENT OF COMMERCE PAYENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. FAZIX/1			APPLICATION NO. 09/910,592		
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DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

statistics," Eur. J. Pharm. Sci. 8(1): 49-56 (1999).

Sheet	2	of	2

FORM PTO-1249 U.S. DEPARTMENT OF COMMERCE PARTON AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

ATTY. DOCKET NO. FAZIX/1	APPLICATION NO. 09/910,592
APPLICANT Jonathan M. Friedman	CONFIRMATION NO. 1403
FILING DATE July 20, 2001	GROUP 1631

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
EXAMINER INITIAL						
	Paciorek, W.A., et al., "Generalized Bessel functions in incommensurate structure analysis," Acta Crystallographica 50: 194-203 (1994).					
	Su, Z., et al., "Closed-form expressions for Fourier-Bessel transform of Slater-type functions," J. Appl. Cryst. 23: 71-73 (1990).					
	Van Drie, J.H., "An inequality for 3D database searching and its use in evaluating the treatment of conformational flexibility," J. Comput. Aided Mol. Des. 10(6): 623-630 (1996).					
	Willet, P., "Searching for pharmacophoric patterns in databases of three-dimensional chemical structures," J. Mol. Recognit. 8(5): 290-303 (1995).					

EXAMINER DATE CONSIDERED